

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IB2004/051075

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B7/09 G02B7/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 04, 31 May 1995 (1995-05-31) -& JP 07 006370 A (SONY CORP), 10 January 1995 (1995-01-10) abstract -----	1,6-8, 10,11
X	US 6 163 416 A (TERASAKI YASUHIRO ET AL) 19 December 2000 (2000-12-19) column 1, line 5 - column 11, line 61; figures 1-8,15,16 -----	1,6-8, 10,11
X	DE 42 24 824 A (SAMSUNG ELECTRONICS CO LTD) 28 January 1993 (1993-01-28) the whole document -----	1,6-8, 10,11



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

29 October 2004

08/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL-2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl.
Fax: (+31-70) 340-3016

Authorized officer

Hermann, R

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/051075

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 07006370	A 10-01-1995	NONE	
US 6163416	A 19-12-2000	JP 11306564 A JP 11306565 A JP 11328699 A CN 1233823 A TW 420357 Y US 6285517 B1 TW 424913 Y	05-11-1999 05-11-1999 30-11-1999 03-11-1999 21-01-2001 04-09-2001 01-03-2001
DE 4224824	A 28-01-1993	KR 160605 B1 DE 4224824 A1 JP 5225593 A US 5323369 A	15-01-1999 28-01-1993 03-09-1993 21-06-1994